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1 Learning and performing by exploration: label quality measured by latent semantic analysis 
Rodolfo Soto May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**
Publisher: ACM Press
Full text available:  pdf(1.07 MB) Additional Information: full citation, abstract, references, citations, index terms
Models of learning and performing by exploration assume that the semantic similarity between task descriptions and labels on display objects (e.g., menus, tool bars) controls in part the users search strategies. Nevertheless, none of the models has an objective way to compute semantic similarity. In this study, Latent Semantic Analysis (LSA) was used to compute semantic similarity between task descriptions and labels in an applications menu system. Participants performed twelve tasks ...

Keywords: cognitive models, label-following strategy, latent semantic analysis, learning by exploration, semantic similarity, usability analysis

2 Programming languages (PL): Exploiting labels in Structural Operational Semantics 
Peter D. Mosses March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available:  pdf(180.97 KB) Additional Information: full citation, abstract, references, citations, index terms
Structural Operational Semantics (SOS) allows transitions to be labelled. This is fully exploited in SOS descriptions of concurrent systems, but usually not at all in conventional descriptions of sequential programming languages. This paper shows how the use of labels can provide significantly simpler and more modular descriptions of programming languages. However, the full power of labels is obtained only when the set of labels is made into a category, as in the recently-proposed MSOS variant of ...

Keywords: MSOS, SOS, modularity, natural semantics, structural operational semantics

3 Automatic labeling of semantic roles 

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1 Visualizing action semantics

Ken Slonninger

 February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**

Publisher: ACM Press

Full text available: [pdf\(812.32 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**2 Formal specification of SNMPv3 entities using action semantics**

Elias P. Duarte, Martin A. Musicante, Diógenes Cogo Furlan

September 2004 **International Journal of Network Management**, Volume 14 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(134.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This work presents a formal description of the structure and behaviour of SNMPv3 entities. IETF documents describe the semantics of the Simple Network Management Protocol version 3 in an almost completely informal way. Our formal description is given using action semantics, a completely formal yet verbose framework for the specification of programming concepts. The purpose of our description is to specify management entities without ambiguities, contributing to a better understanding of the NMPV ...

3 BOOK REVIEW: Action Semantics. By Peter D. Mosses. (Cambridge University

Press, 1992. xx+372pp. ISBN 0-521-40347-2. \$49.95)

Jon G. Riecke

April 1993 **ACM SIGACT News**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: [pdf\(184.82 KB\)](#) Additional Information: [full citation](#)**4 Understanding the global semantics of referential actions using logic rules**

Wolfgang May, Bertram Ludäscher

December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: [pdf\(640.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Referential actions are specialized triggers for automatically maintaining referential

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 1 [Learning and performing by exploration: label quality measured by latent semantic analysis](#)

 Rodolfo Soto**May 1999 [Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit](#)**

Publisher: ACM Press

Full text available:  [pdf\(1.07 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Models of learning and performing by exploration assume that the semantic similarity between task descriptions and labels on display objects (e.g., menus, tool bars) controls in part the users search strategies. Nevertheless, none of the models has an objective way to compute semantic similarity. In this study, Latent Semantic Analysis (LSA) was used to compute semantic similarity between task descriptions and labels in an applications menu system. Participants performed twelve tasks ...

Keywords: cognitive models, label-following strategy, latent semantic analysis, learning by exploration, semantic similarity, usability analysis

 2 [Semantic pointing: improving target acquisition with control-display ratio adaptation](#)

 Renaud Blanch, Yves Gulard, Michel Beaudouin-Lafon**April 2004 [Proceedings of the SIGCHI conference on Human factors in computing systems](#)**

Publisher: ACM Press

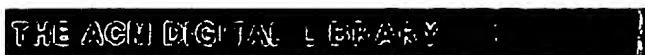
Full text available:  [pdf\(543.47 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce semantic pointing, a novel interaction technique that improves target acquisition in graphical user interfaces (GUIs). Semantic pointing uses two independent sizes for each potential target presented to the user: one size in motor space adapted to its importance for the manipulation, and one size in visual space adapted to the amount of information it conveys. This decoupling between visual and motor size is achieved by changing the control-to-display ratio according to cursor dista ...

Keywords: Fitts' law, control-display ratio, graphical user interface, pointing, semantic pointing

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Terms used smart tags

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- 1** [Links: Microsoft smart tags: support, ignore or condemn them?](#)

Gareth Hughes, Leslie Carr

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: [pdf\(122.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the latest instantiation of the open hypermedia concept of the generic link as it appears in Microsoft&153; Office products - the Smart Tag. We review the background to generic linking and the technology involved in Smart Tags and discuss the reaction to this application in the computing press. Recommendations are made on how the system design could be improved for our purposes.

Keywords: Microsoft smart tags, adaptation, context, generic links, link services, open hypermedia

- 2** [Applications and OS: Smart-tag based data dissemination](#)

Allan Beaufour, Martin Leopold, Philippe Bonnet

September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available: [pdf\(230.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Monitoring wide, hostile areas requires disseminating data between fixed, disconnected clusters of sensor nodes. It is not always possible to install long-range radios in order to cover the whole area. We propose to leverage the movement of mobile individuals, equipped with smart-tags, to disseminate data across disconnected static nodes spread across a wide area. Static nodes and mobile smart-tags exchange data when they are in the vicinity of each other; smart-tags disseminate data as they mov ...

Keywords: bluetooth, epidemic replication, smart-tags

- 3** [Smart identification frameworks for ubiquitous computing applications](#)

Kay Römer, Thomas Schoch, Friedemann Mattern, Thomas Dübendorfer

November 2004 **Wireless Networks**, Volume 10 Issue 6

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1 Predicting the learnability of task-action mappings

 Andrew Howes, Richard M. Young
 March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology**

Publisher: ACM Press

Full text available:  pdf(734.97 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



2 Web technologies and applications (WTA): Survey of semantic annotation platforms

 Lawrence Reeve, Hyoil Han
 March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  pdf(74.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The realization of the Semantic Web requires the widespread availability of semantic annotations for existing and new documents on the Web. Semantic annotations are to tag ontology class instance data and map it into ontology classes. The fully automatic creation of semantic annotations is an unsolved problem. Instead, current systems focus on the semi-automatic creation of annotations. The Semantic Web also requires facilities for the storage of annotations and ontologies, user interfaces, acce ...

Keywords: information extraction, semantic annotation, semantic web

3 Bridging physical and virtual worlds with electronic tags

 Roy Want, Kenneth P. Fishkin, Anuj Gujar, Beverly L. Harrison
 May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Publisher: ACM Press

Full text available:  pdf(1.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The role of computers in the modern office has divided our activities between virtual interactions in the realm of the computer and physical interactions with real objects within the traditional office infrastructure. This paper extends previous work that has attempted to bridge this gap, to connect physical objects with virtual representations or computational functionality, via various types of tags. We discuss a variety of scenarios we have implemented using a novel combination of ...